Center for Regulatory Services, Inc.

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April 22, 2015

CBIC Control **N**umber
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U.S. Environmental Protection Agency – East
Attn: TSCA Section 8(e)
Room 6428
1201 Constitution Avenue, NW
Washington, DC 20004

SUBJECT: TSCA 8(e) Notification
LVE **L-03-153**

The enclosed aquatic tox results that came the attention of JSR Micro, Inc., April 17, 2015, for the subject substance that is identified in Low Volume Exemption **L-03-153**.

The results of the aquatic tox testing of the substance is only identified as **BOSNET**.

48-hour EC50 Acute Immobilization in *Daphnia magna* – <1.0 mg/L
72-hour EC50 Algal Growth Inhibition in *Pseudokirchneriella subcapitata* - <1.0 mg/L

Please feel free to contact the undersigned if you have any questions or if we can provide additional information.

Sincerely,

William A. Olson, Ph.D.
Agent
JSR Micro, Inc.

WAO:gbt
JSR-8E-BOSNET

Enclosures
2 Aquatic Tox Reports (4 pages)

ec: Y. Ueda/ T. Ozag, JSR (w/o Enclosures)

CERI

Receipt number	662-14-E-6879
Study number	96879

March 17, 2015

TEST REPORT

- A 48-hour Acute Immobilization Study in *Daphnia magna* -

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item — BOSNET
2. Sponsor — JSR Corporation
3. Objective — To determine acute effects of the test item to daphnids
4. Dates
   - Exposure initiation — February 23, 2015
   - Exposure termination — February 25, 2015
5. Materials and methods
   - Test organism — *Daphnia magna* (Clone A)
   - Exposure conditions
     - Exposure duration: — 48 hours
     - Test type: — Static regime
     - Test concentration: — 100, 10, 1.0 mg/L as nominal concentration, and a control
     - Preparation of test solution: — The test item and dilution water were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
   - Environmental conditions
     - Dilution water: — Dechlorinated tap water
     - Temperature: — 20±1°C
     - Number of organisms: — 20 daphnids/test level (5 daphnids/test vessel, 4 replicates)
     - Volume of test solution: — 400 mL/test level (100 mL/test vessel, 4 replicates)
     - Test vessel: — 100 mL glass beaker
     - Lighting condition: — Shading condition
       It was conducted under the yellow fluorescent light at the preparation of test item, handing of test organism, measurement of water quality and observation of test organisms, and under the room light at filtering the test solutions.
     - Feeding: — No feeding
     - Aeration: — No aeration
   - Observation and measurements
     - Observation of organisms: — Immobility was observed at 24 and 48 hours after exposure. Daphnids were considered immobile if they were not able to swim within 15 seconds after gentle agitation of the test vessel.
     - Water quality: — Dissolved oxygen concentration and pH were measured of 100 mg/L and the control at the start and end of exposure.
     - Appearance of test solution: — Colorless and clear (at the start of exposure: visual)

6. Result

48-hour median effective concentration (48hr EC_{50}):

<1.0 mg/L (nominal concentration)

Table Result of immobility and quality of test solution

Test level (mg/L)	Immobility (%)		Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	At the start	At the end	At the start	At the end
Control	0	0	8.9	8.9	7.8	7.8
1.0	90	100				
10	100	100				
100	100	100	8.8	8.9	7.8	7.7

CERI

Receipt number	662-14-E-6878
Study number	96878

March 17, 2015

TEST REPORT

— Algal Growth Inhibition Study in *Pseudokirchneriella subcapitata* —

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item: BOSNET
2. Sponsor: JSR Corporation
3. Objective: To determine the effects of the test item on growth of algae
4. Dates
   - Exposure initiation: February 20, 2015
   - Exposure termination: February 23, 2015
5. Materials and methods
   - Test organism: *Pseudokirchneriella subcapitata*
   - Exposure conditions
     - Exposure duration: 72 hours
     - Type test: Incubation with shaking (approximately 100 rpm)
     - Test concentration: 100, 10, 1.0 mg/L as nominal concentration and a control
     - Preparation of test solution: The test item and medium were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
   - Environmental conditions
     - Medium: OECD medium
     - Temperature: 21-24°C (not varied more than ± 2°C)
     - Initial cell concentration: 10^4 cells/mL
     - Volume of test solution: 300 mL/test level (100 mL/test vessel × 3 replicates)
     - Test vessel: Sterilized 300 mL Erlenmeyer flask with gas-permeable silicon rubber plug
     - Lighting condition: Nominal 90 $\mu mol \cdot m^{-2} \cdot s^{-1}$ (within ± 20% of nominal, within ± 15% from the average light intensity) Continuous illumination provided by fluorescent lights with wavelength range of 400-700 nm
   - Measurements
     - Biomass: Chlorophyll fluorescence value was measured.
     - Condition of test solution: pH of 100 mg/L and control were measured at the start and end of exposure.
     - Appearance of test solution: Clear and colorless (at the start of exposure: visual)

6. Result

72-hour median effective concentration (72hr E_rC_{50}) [Based on growth rate (0-3d)]
: <1.0 mg/L (nominal concentration)

No Observed Effect Concentration (NOEC) : <1.0 mg/L (nominal concentration)

Table Growth inhibition rate and pH of test solution

Test level (mg/L)	Growth inhibition rate (%) (Growth rate 0-3d)	pH	
		At the start	At the end
Control	-	7.9	7.8
1.0	106	-	-
10	136	-	-
100	159	7.9	7.8

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